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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 40 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 41 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC
NEWS 42 Feb 13 CANCERLIT is no longer being updated
NEWS 43 Feb 24 METADEX enhancements
NEWS 44 Feb 24 PCTGEN now available on STN
NEWS 45 Feb 24 TEMA now available on STN
NEWS 46 Feb 26 NTIS now allows simultaneous left and right truncation

News Rev'd 1993

NEWS 47 Feb 26 PCTFULL now contains images
NEWS 48 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 49 Mar 19 APOLLIT offering free connect time in April 2003
NEWS 50 Mar 20 EVENTLINE will be removed from STN
NEWS 51 Mar 24 PATDPAFULL now available on STN
NEWS 52 Mar 24 Additional information for trade-named substances without
structures available in REGISTRY
NEWS 53 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:38:51 ON 31 MAR 2003

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:38:57 ON 31 MAR 2003

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 30 MAR 2003 HIGHEST RN 500991-80-0

DICTIONARY FILE UPDATES: 30 MAR 2003 HIGHEST RN 500991-80-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

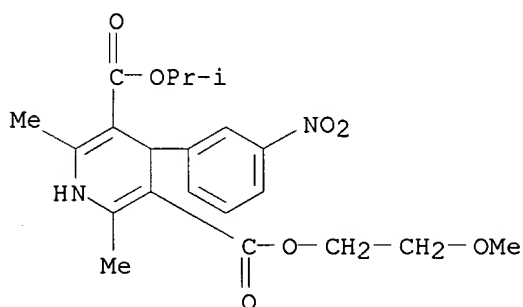
=> s nimodipine
L1 5 NIMODIPINE

=> d l1 1

L1 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2003 ACS
RN 193766-06-2 REGISTRY
CN 3,5-Pyridinedicarboxylic acid, 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-
, 2-methoxyethyl 1-methylethyl ester, radical ion(1-) (9CI) (CA INDEX
NAME)

OTHER NAMES:

CN **Nimodipine radical ion(1-)**
MF C21 H26 N2 O7
CI RIS
SR CA
LC STN Files: CA, CAPLUS



3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> s feldipine
L2 0 FELDIPINE

=> s feldipine
L3 0 FELDIPINE

=> s plendil
L4 1 PLENDIL

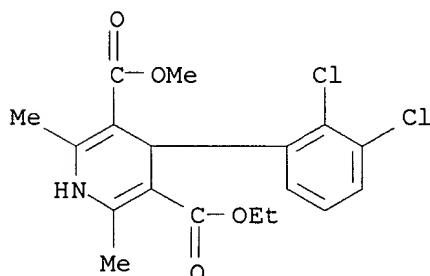
=> d l4 1

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 72509-76-3 REGISTRY
CN 3,5-Pyridinedicarboxylic acid, 4-(2,3-dichlorophenyl)-1,4-dihydro-2,6-
dimethyl-, ethyl methyl ester (9CI) (CA INDEX NAME)

OTHER NAMES:

CN (.+.-)-Felodipine
CN (RS)-Felodipine
CN Agon
CN dl-Felodipine
CN Feloday
CN Felodipine
CN Flodil
CN H 154/82
CN Hydac
CN Munobal
CN **Plendil**

CN Prevex
 CN Splendil
 FS 3D CONCORD
 DR 86189-69-7
 MF C18 H19 Cl2 N O4
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CHEMCATS, CIN, CSCHM, DDFU, DIOGENES, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IFICDB, IFIUDB, IPA, MEDLINE, MRCK*, PHAR, PHARMASEARCH, PROMT, RTECS*, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: WHO



514/356

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

877 REFERENCES IN FILE CA (1962 TO DATE)
 21 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 879 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> s gabatril

L5 1 GABATRIL

=> d 15

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 115103-54-3 REGISTRY

CN 3-Piperidinecarboxylic acid, 1-[4,4-bis(3-methyl-2-thienyl)-3-butenyl]-, (3R)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3-Piperidinecarboxylic acid, 1-[4,4-bis(3-methyl-2-thienyl)-3-butenyl]-, (R)-

OTHER NAMES:

CN (R)-Tiagabine

CN **Gabatril**

CN NO 050328

CN NO 328

CN TGB

CN Tiagabine

FS STEREOSEARCH

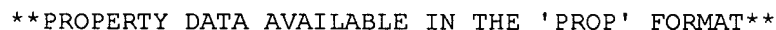
MF C20 H25 N O2 S2

CI COM

SR CA

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CBNB, CEN, CIN, DDFU,

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(*File contains numerically searchable property data)
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$$514 \mid 326$$


7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

208 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L6 4 TIAGABINE

L6 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2003 ACS

RN 145821-59-6 REGISTRY

CN 3-Piperidinecarboxylic acid, 1-[4,4-bis(3-methyl-2-thienyl)-3-butenyl]-,
hydrochloride, (3R)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3-Piperidinecarboxylic acid, 1-[4,4-bis(3-methyl-2-thienyl)-3-butenyl]-, hydrochloride, (R)-

OTHER NAMES:

CN Abbott 70569 hydrochloride

CN Abbott 70569.1

CN ABT 569

CN Gabitril

CN NNC 05-0328

CN NO 05-0328

CN Tiabex

CN Tiagabine hydrochloride

FS STEREOSEARCH

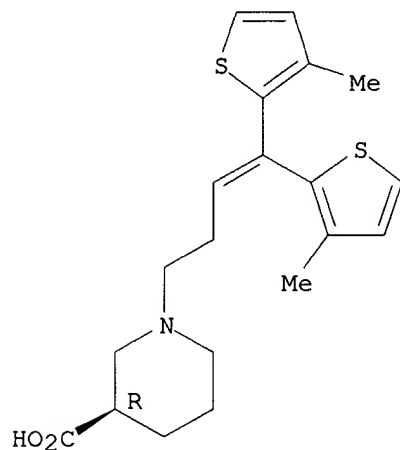
MF C20 H25 N O2 S2 . Cl H

SR CA

LC STN Files: ADISNEWS, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS, CBNB,
CIN, DIOGENES, DRUGPAT, DRUGUPDATES, IPA, MRCK*, PHARMASEARCH, PROMT,
SYNTHLINE, TOXCENTER, USAN, USPATFULL

(*File contains numerically searchable property data)
CRN (115103-54-3)

Absolute stereochemistry.



● HCl

26 REFERENCES IN FILE CA (1962 TO DATE)
26 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> s benafryl

L7 0 BENAFRYL

=> s benadryl

L8 3 BENADRYL

=> d 18 1

L8 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2003 ACS

RN 123633-86-3 REGISTRY

CN Benzenemethanol, .alpha.-[1-(methylamino)ethyl]-, hydrochloride,
[S-(R*,R*)]-, mixt. with 2-(diphenylmethoxy)-N,N-dimethylethanamine
hydrochloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethanamine, 2-(diphenylmethoxy)-N,N-dimethyl-, hydrochloride, mixt. contg.
(9CI)

OTHER NAMES:

CN **Benadryl D**

FS STEREOSEARCH

MF C17 H21 N O . C10 H15 N O . 2 Cl H

CI MXS

SR CA

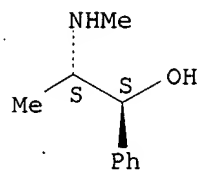
LC STN Files: BIOSIS, CA, CAPLUS, USPATFULL

CM 1

CRN 345-78-8 (90-82-4)

CMF C10 H15 N O . Cl H

Absolute stereochemistry. Rotation (+).

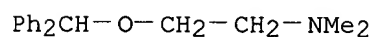


HCl

CM 2

CRN 147-24-0 (58-73-1)

CMF C17 H21 N O . Cl H



● HCl

2 REFERENCES IN FILE CA (1962 TO DATE)

2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> d 18 3

L8 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2003 ACS

RN 118-23-0 REGISTRY

CN Ethanamine, 2-[(4-bromophenyl)phenylmethoxy]-N,N-dimethyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethylamine, 2-[(p-bromo-.alpha.-phenylbenzyl)oxy]-N,N-dimethyl- (6CI, 7CI, 8CI)

OTHER NAMES:

CN .beta.-(p-Bromobenzhydryloxy)ethyldimethylamine

CN 2-(p-Bromo-.alpha.-phenylbenzyloxy)-N,N-dimethylethylamine

CN 4-Bromodiphenhydramine

CN Ambodryl

CN Bromanautine

CN Bromazin base

CN Bromazine

CN Bromdiphenhydramine

CN **Bromo-Benadryl**

CN **Bromo-Benadryl base**

CN Bromodiphenhydramine

CN Deserol

CN Deserol base

CN Histabromamine

CN **Neo-Benadryl**

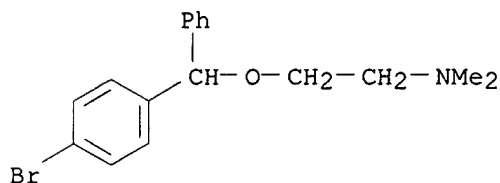
FS 3D CONCORD

MF C17 H20 Br N O

CI COM

LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CHEMLIST, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, MEDLINE, MRCK*,

SPECINFO, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)



5/4/651

A21 5/4/49

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

121 REFERENCES IN FILE CA (1962 TO DATE)
7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
123 REFERENCES IN FILE CAPLUS (1962 TO DATE)
15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
46.24	46.45

FILE 'CAPLUS' ENTERED AT 14:42:26 ON 31 MAR 2003
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FILE COVERS 1907 - 31 Mar 2003 VOL 138 ISS 14
FILE LAST UPDATED: 30 Mar 2003 (20030330/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s calcium channel blocker
623169 CALCIUM
202960 CHANNEL
31549 BLOCKER
L9 3826 CALCIUM CHANNEL BLOCKER
(CALCIUM(W) CHANNEL(W) BLOCKER)

=> s calcium channel
623169 CALCIUM
202960 CHANNEL
L10 22339 CALCIUM CHANNEL

(CALCIUM(W) CHANNEL)

=> s gaba reuptake inhibitor

32906 GABA

5975 REUPTAKE

407727 INHIBITOR

L11 17 GABA REUPTAKE INHIBITOR

(GABA(W) REUPTAKE(W) INHIBITOR)

=> azt

AZT IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> s azt

L12 3012 AZT

=> s l12 and fungal

37220 FUNGAL

L13 12 L12 AND FUNGAL

=> d l13 1-12

L13 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2003 ACS

AN 2002:832613 CAPLUS

DN 137:333119

TI 3-Aminopyridine-2-carboxyaldehyde thiosemicarbazones and methods using them for treating viral and **fungal** infections

IN King, Ivan C.; Doyle, Terrence W.; Sznol, Mario; Sartorelli, Alan C.; Cheng, Yung-Chi

PA Vion Pharmaceuticals, Inc., USA; Yale University

SO PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002085358	A2	20021031	WO 2002-US12358	20020418
	WO 2002085358	A3	20021219		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2002188011	A1	20021212	US 2002-126050	20020418
PRAI	US 2001-285559P	P	20010420		
OS	MARPAT 137:333119				

L13 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2003 ACS

AN 2002:51191 CAPLUS

DN 136:123627

TI Device and method for intravaginal or transvaginal treatment of **fungal**, bacterial, viral or parasitic infections

IN D'Augustine, Merida A.; Liu, James H.; Harrison, Donald C.

PA UMD, Inc., USA

SO PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002003896	A1	20020117	WO 2001-US41128	20010625
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 2001081287	A5	20020121	AU 2001-81287	20010625
PRAI	US 2000-613441	A	20000711		
	WO 2001-US41128	W	20010625		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS

AN 2001:499858 CAPLUS

DN 135:87152

TI A method and pharmaceutical composition using (5-aryl-1,2,4-thiadiazol)-3-yl thiourea derivatives or (5-aryl-1,2,4-thiadiazol)-3-yl urea derivatives as antiviral, antineoplastic, and antifungal agents

IN Camden, James Berger

PA The Procter & Gamble Company, USA

SO U.S., 13 pp., Cont.-in-part of U.S. Ser. No. 281,896, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6258831	B1	20010710	US 2000-535172	20000327
	US 2001031773	A1	20011018	US 2001-812094	20010319
	US 6410575	B1	20020625		
PRAI	US 1999-281896	B2	19990331		
	US 2000-535172	A3	20000327		

OS MARPAT 135:87152

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2003 ACS

AN 2001:149050 CAPLUS

DN 134:188184

TI 2-thienyl-imidazolo[4,5]pyridine compounds for treatment of viral and **funga**l infections and Kaposi's sarcoma

IN Camden, James Berger; Gardner, Joseph Herman; Stanton, David Thomas

PA The Procter & Gamble Company, USA

SO U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 281,892, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6194430	B1	20010227	US 2000-538006	20000329
PRAI	US 1999-281892	B2	19990331		

OS MARPAT 134:188184

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS

AN 2000:911409 CAPLUS

DN 134:69876

TI Subcellular distribution of uncoupling proteins as a marker of cell proliferation capacity and its manipulation in tumor therapy

IN Newell, Martha K.

PA University of Vermont and State Agricultural College, USA

SO PCT Int. Appl., 106 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000078941	A2	20001228	WO 2000-US17245	20000622
	WO 2000078941	A3	20010222		
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	RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	EP 1194168	A2	20020410	EP 2000-943076	20000622
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO		
	JP 2003503319	T2	20030128	JP 2001-505684	20000622
PRAI	US 1999-140574P	P	19990623		
	WO 2000-US17245	W	20000622		

L13 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2003 ACS

AN 2000:706974 CAPLUS

DN 133:286468

TI Viral treatment using 2-thienyl-imidazolo[4,5]pyridine derivatives

IN Camden, James Berger; Gardner, Joseph Herman; Stanton, David Thomas

PA The Procter & Gamble Company, USA

SO PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000057870	A2	20001005	WO 2000-US8419	20000329
	WO 2000057870	A3	20010308		
	W:		AE, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	EP 1165077	A2	20020102	EP 2000-919868	20000329
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IE, SI, LT, LV, FI, RO
 JP 2002540151 T2 20021126 JP 2000-607621 20000329
 PRAI US 1999-281892 A 19990331
 WO 2000-US8419 W 20000329
 OS MARPAT 133:286468

L13 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS
 AN 1998:764282 CAPLUS
 DN 130:20546
 TI HIV and cancer treatment
 IN Camden, James Berger
 PA The Procter & Gamble Company, USA
 SO PCT Int. Appl., 41 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9851303	A1	19981119	WO 1997-US21564	19971126
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
ZA 9709095	A	19980511	ZA 1997-9095	19971010
AU 9874029	A1	19981208	AU 1998-74029	19971126
EP 954309	A1	19991110	EP 1997-949599	19971126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
BR 9712981	A	20000418	BR 1997-12981	19971126
CN 1254281	A	20000524	CN 1997-182189	19971126
JP 2000510156	T2	20000808	JP 1998-522997	19971126
NO 9901701	A	20000117	NO 1999-1701	19990409
KR 2000049064	A	20000725	KR 1999-703137	19990410
PRAI US 1997-46726P	P	19970516		
WO 1997-US21564	W	19971126		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS
 AN 1998:681024 CAPLUS
 DN 130:60568
 TI Pharmacokinetics and tissue distribution of (.+-.)-3'-azido-2',3'-dideoxy-5'-O-(2-bromomyristoyl)thymidine, a prodrug of 3'-azido-2',3'-dideoxythymidine (**AZT**) in mice
 AU Parang, Keykavous; Wiebe, Leonard I.; Knaus, Edward E.
 CS Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Edmonton, AB, T6G 2N8, Can.
 SO Journal of Pharmacy and Pharmacology (1998), 50(9), 989-996
 CODEN: JPPMAB; ISSN: 0022-3573
 PB Royal Pharmaceutical Society of Great Britain
 DT Journal
 LA English

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS
 AN 1998:180782 CAPLUS
 DN 128:256389

TI Immune direction therapy
 IN Prendergast, Patrick T.
 PA Prendergast, Patrick T., Ire.
 SO PCT Int. Appl., 83 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9810787	A2	19980319	WO 1997-IB1086	19970910
	WO 9810787	A3	19980730		
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9741320	A1	19980402	AU 1997-41320	19970910
	EP 929568	A2	19990721	EP 1997-939105	19970910
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	CN 1230195	A	19990929	CN 1997-197816	19970910
	JP 2001503613	T2	20010321	JP 1998-513435	19970910
	NZ 335039	A	20010427	NZ 1997-335039	19970910
	SE 9900812	A	19990308	SE 1999-812	19990308
PRAI	US 1996-25180P	P	19960911		
	WO 1997-IB1086	W	19970910		

L13 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS

AN 1993:440940 CAPLUS

DN 119:40940

TI Uses of acemannan or other aloe products in the treatment of diseases requiring intervention of the immune system for cure

IN McAnalley, Bill H.; Carpenter, Robert H.; McDaniel, Harley R.

PA Carrington Laboratories, Inc., USA

SO PCT Int. Appl., 115 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9308810	A1	19930513	WO 1991-US8204	19911105
	W:	AT, AU, BB, BG, BR, CA, CH, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MW, NL, NO, PL, RO, SD, SE, SU			
	RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG			
	AU 9190831	A1	19930607	AU 1991-90831	19911105
	EP 611304	A1	19940824	EP 1992-900586	19911105
	EP 611304	B1	19990915		
	R:	DE, FR, GB, IT			
	EP 965346	A2	19991222	EP 1999-200519	19911105
	EP 965346	A3	20000126		
	R:	DE, FR, GB, IT			
PRAI	EP 1992-900586		19911105		
	WO 1991-US8204		19911105		

L13 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS

AN 1990:546775 CAPLUS

DN 113:146775
 TI Interference in endotoxin and **fungal** polysaccharide assays from
 blood products and antimicrobial agents
 AU Ikemura, Katsumi; Tanaka, Hiroshi; Yoshioka, Toshiharu; Sugimoto, Tsuyoshi
 CS Med. Sch., Osaka Univ., Osaka, 553, Japan
 SO Rinsho Byori (1990), 38(1), 87-92
 CODEN: RBYOAI; ISSN: 0047-1860
 DT Journal
 LA Japanese

L13 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS
 AN 1987:135100 CAPLUS
 DN 106:135100
 TI Antibacterial activity and mechanism of action of 3'-azido-3'-
 deoxythymidine (BW A509U)
 AU Elwell, Lynn P.; Ferone, Robert; Freeman, G. Andrew; Fyfe, James A.; Hill,
 John A.; Ray, Paul H.; Richards, Cynthia A.; Singer, Sara C.; Knick,
 Victoria B.; et al.
 CS Dep. Microbiol., Wellcome Res. Lab., Research Triangle Park, NC, 27709,
 USA
 SO Antimicrobial Agents and Chemotherapy (1987), 31(2), 274-80
 CODEN: AMACCQ; ISSN: 0066-4804
 DT Journal
 LA English

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	33.90	80.35

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STRUCTURE FILE UPDATES: 30 MAR 2003 HIGHEST RN 500991-80-0
 DICTIONARY FILE UPDATES: 30 MAR 2003 HIGHEST RN 500991-80-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
 PROPERTIES for more information. See STNnote 27, Searching Properties
 in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s azt

L14 6 AZT

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	4.62	84.97

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FILE COVERS 1907 - 31 Mar 2003 VOL 138 ISS 14
FILE LAST UPDATED: 30 Mar 2003 (20030330/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d hi
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

'HI' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):file caplus
'FILE' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'CAPLUS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

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APPS -- Application and Priority Information
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CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels

ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)

OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations

SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.

HELP FORMATS -- To see detailed descriptions of the predefined formats.

ENTER DISPLAY FORMAT (IDE):bib

'BIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN

SAM - Index Name, MF, and structure - no RN

FIDE - All substance data, except sequence data

IDE - FIDE, but only 50 names

SQIDE - IDE, plus sequence data

SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used

SQD - Protein sequence data, includes RN

SQD3 - Same as SQD, but 3-letter amino acid codes are used

SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties

EPROP - Table of experimental properties

PROP - EPROP and CALC

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APPS -- Application and Priority Information

BIB -- CA Accession Number, plus Bibliographic Data

CAN -- CA Accession Number

CBIB -- CA Accession Number, plus Bibliographic Data (compressed)

IND -- Index Data

IPC -- International Patent Classification

PATS -- PI, SO

STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels

IBIB -- BIB, indented, with text labels

ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)

OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

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HELP FORMATS -- To see detailed descriptions of the predefined formats.

ENTER DISPLAY FORMAT (IDE):ide

L14 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2003 ACS

RN 117675-21-5 REGISTRY

CN Thymidine, 3'-azido-3'-deoxy-5'-O-.beta.-D-glucopyranuronosyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3'-Deoxy-3'-azidothymidine-5'--.beta.-glucuronide

CN **AZT 5'-glucuronide**

CN GAZT

CN **Glo-azT**

CN Retrovir glucuronide

CN Zidovudine 5'-glucuronide

CN Zidovudine glucuronide

FS STEREOSEARCH

DR 126320-81-8, 129200-08-4, 146367-97-7

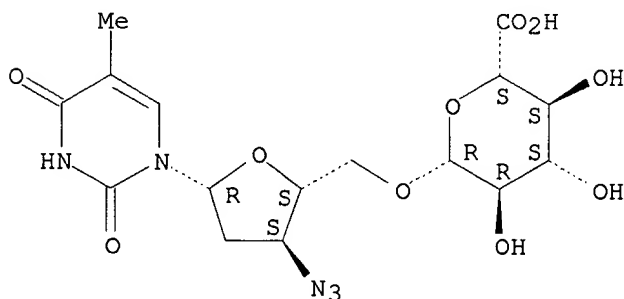
MF C16 H21 N5 O10

CI COM

SR CA

LC STN Files: ADISNEWS, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, EMBASE, IPA, MEDLINE, PROMT, TOXCENTER

Absolute stereochemistry.



69 REFERENCES IN FILE CA (1962 TO DATE)

69 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.42

87.89

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FILE COVERS 1907 - 31 Mar 2003 VOL 138 ISS 14
FILE LAST UPDATED: 30 Mar 2003 (20030330/ED)

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=> d his

(FILE 'HOME' ENTERED AT 14:38:51 ON 31 MAR 2003)

FILE 'REGISTRY' ENTERED AT 14:38:57 ON 31 MAR 2003

L1	5 S NIMODIPINE
L2	0 S FELDIPINE
L3	0 S FELDIPINE
L4	1 S PLENDIL
L5	1 S GABATRIL
L6	4 S TIAGABINE
L7	0 S BENAFRYL
L8	3 S BENADRYL

FILE 'CAPLUS' ENTERED AT 14:42:26 ON 31 MAR 2003

L9	3826 S CALCIUM CHANNEL BLOCKER
L10	22339 S CALCIUM CHANNEL
L11	17 S GABA REUPTAKE INHIBITOR
L12	3012 S AZT
L13	12 S L12 AND FUNGAL

FILE 'REGISTRY' ENTERED AT 14:48:45 ON 31 MAR 2003

L14	6 S AZT
-----	---------

FILE 'CAPLUS' ENTERED AT 14:48:57 ON 31 MAR 2003

FILE 'REGISTRY' ENTERED AT 14:49:30 ON 31 MAR 2003

FILE 'CAPLUS' ENTERED AT 14:49:48 ON 31 MAR 2003

FILE 'CAPLUS' ENTERED AT 14:49:56 ON 31 MAR 2003

=> gaba

GABA IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s gaba

L15 32906 GABA

=> e immune

E1	1	IMMUNDIFFUSION/BI
E2	1	IMMUNDYSREGULATORY/BI
E3	146714 -->	IMMUNE/BI
E4	1	IMMUNEACTIVE/BI
E5	1	IMMUNEADJUVANT/BI
E6	1	IMMUNEAGING/BI
E7	1	IMMUNEANTIGEN/BI
E8	1	IMMUNEASSAY/BI
E9	1	IMMUNEASSOCD/BI
E10	1	IMMUNEBODIES/BI
E11	1	IMMUNECARRIER/BI
E12	2	IMMUNECOMPETENT/BI

=> s e3

L16 146714 IMMUNE/BI

=> s l14 and l10

4502 L14

L17 1 L14 AND L10

=> d l17

L17 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

AN 1993:116173 CAPLUS

DN 118:116173

TI Pharmacokinetic evaluation of drug interactions with antihuman immunodeficiency virus drugs. VI. Effect of the **calcium channel** blocker nimodipine on zidovudine kinetics in monkeys

AU Gallo, James M.; Swagler, Anne R.; Mehta, Mehul; Qian, Mingxin

CS Coll. Pharm., Univ. Georgia, Athens, GA, USA

SO Journal of Pharmacology and Experimental Therapeutics (1993), 264(1), 315-20

CODEN: JPETAB; ISSN: 0022-3565

DT Journal

LA English

=> d l17 1 all

L17 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

AN 1993:116173 CAPLUS

DN 118:116173

TI Pharmacokinetic evaluation of drug interactions with antihuman immunodeficiency virus drugs. VI. Effect of the **calcium channel** blocker nimodipine on zidovudine kinetics in monkeys

AU Gallo, James M.; Swagler, Anne R.; Mehta, Mehul; Qian, Mingxin

CS Coll. Pharm., Univ. Georgia, Athens, GA, USA

SO Journal of Pharmacology and Experimental Therapeutics (1993), 264(1), 315-20

CODEN: JPETAB; ISSN: 0022-3565

DT Journal

LA English

CC 1-2 (Pharmacology)

AB Coadministration of zidovudine (AZT) and nimodipine, a **calcium-channel** blocker, is a potential therapeutic regimen in acquired immunodeficiency syndrome patients based on the report that nimodipine can prevent human immunodeficiency virus-induced neurotoxicity in vitro. An evaluation of the pharmacokinetics of AZT and its glucuronide metabolite 3'-azido-3'-deoxy-5'-O-.beta.-D-glucopyranurosylthymidine (GAZT) in the

presence and absence of nimodipine in monkeys was undertaken. After 20 mg/kg of AZT given i.v. in the presence and absence of nimodipine, nimodipine caused a significant redn. (41%) in the vol. of distribution of AZT at steady state and a 22% decrease in total clearance. The disposition of GAZT was also influenced by nimodipine, causing a large increase in its area under the plasma concn.-time curve. Renal excretion data for AZT and GAZT, although inconclusive, suggested nimodipine caused a decrease in the renal clearance of AZT with a minimal change in the renal clearance of GAZT. The combined effects of nimodipine on the clearance of AZT and vol. of distribution at steady state produced no change in its elimination half-life.

ST nimodipine zidovudine pharmacokinetics interactions
 IT Acquired immune deficiency syndrome
 (therapy of, nimodipine interaction with zidovudine pharmacokinetics in relation to)
 IT Kidney, metabolism
 (zidovudine excretion by, nimodipine effect on)
 IT Drug interactions
 (pharmacokinetic, of nimodipine with zidovudine, AIDS therapy in relation to)
 IT 66085-59-4, Nimodipine
 RL: PRP (Properties)
 (interaction of, with zidovudine pharmacokinetics, AIDS therapy in relation to)
 IT 30516-87-1, Zidovudine 117675-21-5
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (pharmacokinetics of, nimodipine interaction with, AIDS therapy in relation to)

=> d his

(FILE 'HOME' ENTERED AT 14:38:51 ON 31 MAR 2003)

FILE 'REGISTRY' ENTERED AT 14:38:57 ON 31 MAR 2003

L1 5 S NIMODIPINE
 L2 0 S FELDIPINE
 L3 0 S FELDIPINE
 L4 1 S PLENDIL
 L5 1 S GABATRIL
 L6 4 S TIAGABINE
 L7 0 S BENAFRYL
 L8 3 S BENADRYL

FILE 'CAPLUS' ENTERED AT 14:42:26 ON 31 MAR 2003

L9 3826 S CALCIUM CHANNEL BLOCKER
 L10 22339 S CALCIUM CHANNEL
 L11 17 S GABA REUPTAKE INHIBITOR
 L12 3012 S AZT
 L13 12 S L12 AND FUNGAL

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L14 6 S AZT

FILE 'CAPLUS' ENTERED AT 14:48:57 ON 31 MAR 2003

FILE 'REGISTRY' ENTERED AT 14:49:30 ON 31 MAR 2003

FILE 'CAPLUS' ENTERED AT 14:49:48 ON 31 MAR 2003

FILE 'CAPLUS' ENTERED AT 14:49:56 ON 31 MAR 2003

L15 32906 S GABA
 E IMMUNE
L16 146714 S E3
L17 1 S L14 AND L10

=> s 15
L18 208 L5

=> s 118 and hiv
 48504 HIV
L19 0 L18 AND HIV

=> s 118 and viral
 117518 VIRAL
L20 0 L18 AND VIRAL

=> s 115 and hiv
 48504 HIV
L21 10 L15 AND HIV